

### Abstract

The invention provides a nondestructive measuring method and measuring apparatus that assures a high noise immunity and is capable of performing high-accuracy beam current measurements. The inventive beam current measuring apparatus includes a magnetism shielding part for shielding an external magnetic field and a magnetic field sensor arranged in the shielding space generated by said magnetism shielding part, said beam current measuring apparatus measuring, by using said magnetic field sensor, a magnetic field where a beam current to be measured is generated, characterized in that said magnetic field sensor has a magnetic flux/feedback current conversion coefficient of  $8 \times 10^{-15}$  Wb/A or above.